TEJUS
CONSULTANTS

## Test Report on Cement

| | |
|---|---|
| **Project** | Improvments to Tiolet in Ward No 08 Kodigehalli |
| **Client** | Bruhat Bangalore Mahanagar Palike |
| **Consultant** | TEJUS CONSULTANTS |
| **Contractor** | M/s KRIDL |
| **Sample ID** | Cement |
| **Date of Sample Tested** | 30-09-2021 |
| **Sample Supplied By** | Agency |

| Sl.No. | Descriptions | Test Method as per IS | Test Result | Requirements as per IS: 12269-1987 |
|---|---|---|---|---|
| 1 | a) Initial Setting Time | IS-4031 (Part-5) | 45 Minutes | Not Less than 30 Minutes |
| | b) Final Setting Time | IS-4031 (Part-5) | 385 Minutes | Not More than 600 Minutes |
| 2 | Soundness | IS-4031 (Part-3) By the Le-Chatelier method | 5 mm | Not More than 10 mm |
| 3 | Standard Consistency | IS-4031 (Part-4) | 27.50% | 25 % to 35 |

Asst. Executive Engineer
Project Division
Yelahanka Zone - 92
BBMP, Bangalore

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3. Any Query regarding the report must be reported reported within 15days from the date of testing.
4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Authorised Signatory

TEJUS CONSULTANTS
No. 58, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079, O : +91 80 23287532, tejusconsultants@gmail.com

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| TEST REPORT | |
|---|---|
| Clients | BRUHAT BENGALORE MAHANAGARA PALIKE |
| Project | IMPROVMENTS TO TIOLET IN WARD NO 08 KODIGEHALLI |
| Consultants | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore |
| Contractor | M/s KRIDL |

## SPECIFIC GRAVITY AND WATER ABSORPTION

### FINE AGGREGATE (IS-2386-PART-3)

| | | | |
|---|---|---|---|
| Type of Material | Fine aggregate (River Sand/ M sand) | Proposed Use | PCC |
| Location/Source | At Site/Plant | Date of Sampling | 29-09-2021 |
| Period of Soaking | 24 hours | Date of Testing | 30-09-2021 |

| Sl. No. | Test Property | TRIAL - 1 | TRIAL - 2 | TRIAL - 3 | |
|---|---|---|---|---|---|
| A | Weight of sturated surface dry sample gm. | 683 | 652 | 670 | |
| B | Weight of oven - dry sample gm. | 671 | 642 | 660 | |
| C | Weight of Pycnometer Filled with water gm | 1275 | 1275 | 1275 | |
| D | Weight of Pycnometer + sample + water gm | 1686 | 1682 | 1698 | |
| E | Bulk specific gravity $\frac{B}{(C+A-D)}$ | 2.467 | 2.620 | 2.672 | 2.586 |
| G | Absorption (%) $\frac{(A-B)*100}{B}$ | 1.788 | 1.558 | 1.515 | 1.620 |

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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| TEST REPORT | | | | | |
|---|---|---|---|---|---|
| Clients | Bruhat Bangalore Mahanagara Palike | | | | |
| Project | IMPROVMENTS TO TIOLET IN WARD NO 08 KODIGEHALLI | | | | |
| Consultants | Tejus Consultants, Bangalore | | | | |
| Contractor | M/s KRIDL | | | | |
| **SIEVE ANALYSIS** | | | | | |
| Total Weight: | 3000 | gms | | | |
| Type of Material | Fine aggregate (River Sand/ M sand) | | Proposed Use | P.C.C | |
| Sample Location | At Site/Plant | | Date of Sampling | 30-09-2021 | |
| | | | Date of Testing | 30-09-2021 | |
| IS Sieve Size | Weight Retained | Cum. Weight Retained | Cum. % Retained | Cum. % Passing | Spec. Limit (%) Passing (Zone-II) |
| 10.00 mm | 0 | 0 | 0 | 100.00 | 100 |
| 4.75 mm | 190 | 190 | 6.33 | 93.67 | 90 - 100 |
| 2.36 mm | 310 | 500 | 16.67 | 83.33 | 75 - 100 |
| 1.18 mm | 415 | 915 | 30.50 | 69.50 | 55 - 90 |
| 0.600 mm | 480 | 1395 | 46.50 | 53.50 | 35 -59 |
| 0.300 mm | 780 | 2175 | 72.50 | 27.50 | 8-30 |
| 0.150 mm | 610 | 2785 | 92.83 | 7.17 | 0 - 10 |
| Pan | 215 | 3000 | | | - |
| | | | | | |

**Remarks :** ✓ Satisfactory / Not Satisfactory

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 64

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## TEST REPORT

| | |
|---|---|
| Clients | Bruhath Bangalore Mahanagara Palike |
| Project | IMPROVMENTS TO TIOLET IN WARD NO 08 KODIGEHALLI |
| Consultants | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore |
| Contractor | M/s KRIDL |
| Total Weight in gm: | 3000 |

## SIEVE ANALYSIS

| | | | |
|---|---|---|---|
| Type of Material | 40 mm down size | Proposed Use | P.C.C |
| Sample Location | At Site/Plant | Date of Sampling | 30-09-2021 |
| | | Date of Testing | 30-09-2021 |

| IS Sieve Size | Weight Retained in gm | Cum. Weight Retained in gm | Cumulative Weight Retained in % | Cumulative Weight Passing in % | Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size |
|---|---|---|---|---|---|
| 80.00mm | 0 | 0 | 0.00 | 100.00 | 100 |
| 63.00mm | 0 | 0 | 0.00 | 100.00 | - |
| 40.00mm | 70 | 70 | 2.33 | 97.67 | 95-100 |
| 20.00mm | 1350 | 1420 | 47.33 | 52.67 | 30-70 |
| 10.00mm | 980 | 2400 | 80.00 | 20.00 | 10-35 |
| 4.75mm | 500 | 2900 | 96.67 | 3.33 | 0-5 |
| Pan | 100 | 3000 | 100.00 | 0.00 | |

**Remarks :** ✓ Satisfactory / Not Satisfactory

Assistant Executive Engineer
BBMP (Yelahanka Zone)
Bangalore - 92

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## TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

| | | |
|---|---|---|
| **Name of Work** | : | Improvments to Tiolet in Ward No 08 Kodigehalli |
| **Client** | : | Bruhat Bengaluru Mahanagara Palike |
| **Contractor** | : | M/s KRIDL |
| **Consultant** | : | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore |
| **Date of Testing** | : | 01-10-2021 |
| **Techinical Reference** | : | IS 1786:2008, IS1608:2005, IS1599:1985(Reaffirmed2006) |
| **Sample Identification** | : | 10mm.TMT Fe500 Bars |

| Sl. No. | Nominal size dia in mm) | Mass per metre (kg/m) | TENSILE STRENGTH | | |
|---|---|---|---|---|---|
| | | | 0.20% proof stress/yield stress N/mm2 | Tensile strength N/mm2 ' | Elongation,percent on gauge length |
| 1 | 10 | 0.618 | 526 | 574 | 19 |

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Yelahanka Zone
BBMP, Bangalore - 92

**Consultant's Representative**

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## Test Report on Cement

| | |
|---|---|
| **Project** | IMPROVMENTS TO TIOLET IN WARD NO 08 KODIGEHALLI |
| **Client** | Bruhat Bangalore Mahanagar Palike |
| **Consultant** | TEJUS CONSULTANTS |
| **Contractor** | M/s KRIDL |
| **Sample ID** | Cement |
| **Date of Sample Tested** | 04-10-2021 |
| **Sample Supplied By** | Agency |

| Sl.No. | Descriptions | Test Method as per IS | Test Result | Requirements as per IS: 12269-1987 |
|---|---|---|---|---|
| 1 | a) Initial Setting Time | IS-4031 (Part-5) | 48 Minutes | Not Less than 30 Minutes |
| | b) Final Setting Time | IS-4031 (Part-5) | 410 Minutes | Not More than 600 Minutes |
| 2 | Soundness | IS-4031 (Part-3) By the Le-Chatelier method | 6 mm | Not More than 10 mm |
| 3 | Standard Consistency | IS-4031 (Part-4) | 28.45% | |

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4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the Work

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Authorised Signatory

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# TEST REPORT

| | | | |
|---|---|---|---|
| **Clients** | Bruhat Bangalore Mahanagara Palike | | |
| **Project** | IMPROVMENTS TO TIOLET IN WARD NO 08 KODIGEHALLI | | |
| **Consultants** | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore | | |
| **Contractor** | M/s KRIDL | | |
| **Total Weight:** | 10000 | gms | |

## SIEVE ANALYSIS

| | | | |
|---|---|---|---|
| **Type of Material** | **12.5 mm down size** | **Proposed Use** | Concrete |
| **Sample Location** | Plant/site | **Date of Sampling** | 04-10-2021 |
| | | **Date of Testing** | 04-10-2021 |

| IS Sieve Size (in mm) | Weight Retained | Cum. Weight Retained | Cum. % Retained | Cum. % Passing | Spec. Limit (%) Passing |
|---|---|---|---|---|---|
| 20.0 | 0 | 0 | 0 | 100 | 100 |
| 12.5 | 560 | 560 | 5.60 | 94.40 | 90-100 |
| 10.0 | 2356 | 2916 | 29.16 | 70.84 | 40-85 |
| 4.75 | 6425 | 9341 | 93.41 | 6.59 | 0-10 |
| Pan | 659 | 10000 | | | |
| | | | | | |

**Remarks :** Satisfactory / Not Satisfactory

Asst Executive Engineer
Project Division
BBMP, Bangalore - 92
Yelahanka Zone

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**Authorised Signatory**

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| TEST REPORT | | | | | |
|---|---|---|---|---|---|
| **Clients** | Bruhat Bangalore Mahanagara Palike | | | | |
| **Project** | IMPROVMENTS TO TIOLET IN WARD NO 08 KODIGEHALLI | | | | |
| **Consultants** | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore | | | | |
| **Contractor** | M/s KRIDL | | | | |
| **Total Weight:** | 10000 | gms | | | |

## SIEVE ANALYSIS

| | | | | |
|---|---|---|---|---|
| **Type of Material** | 20 mm down size | **Proposed Use** | Concrete | |
| **Sample Location** | At Plant | **Date of Sampling** | 04-10-2021 | |
| | | **Date of Testing** | 04-10-2021 | |

| IS Sieve Size | Weight Retained | Cum. Weight Retained | Cum. % Retained | Cum. % Passing | Spec. Limit (%) Passing |
|---|---|---|---|---|---|
| 40.00 mm | 0 | 0 | 0 | 100 | 100 |
| 20.00 mm | 265 | 265 | 2.65 | 97.35 | 95 - 100 |
| 10.00 mm | 4732 | 4997 | 49.97 | 50.03 | 25 - 55 |
| 4.75 mm | 4625 | 9622 | 96.22 | 3.78 | 0 - 10 |
| Pan | 378 | 10000 | | | |
| | | | | | |

**Remarks :** Satisfactory / Not Satisfactory

Asst. Executive Engineer
BBMP, Bangalore - 92

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## TEST REPORT

| | |
|---|---|
| Clients | BRUHAT BENGALORE MAHANAGARA PALIKE |
| Project | IMPROVMENTS TO TIOLET IN WARD NO 08 KODIGEHALLI |
| Consultants | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore |
| Contractor | M/s KRIDL |

## SPECIFIC GRAVITY AND WATER ABSORPTION FINE AGGREGATE
(IS-2386-PART-3)

| | | | |
|---|---|---|---|
| Type of Material | Sand/M sand | Proposed Use | Drain |
| Location/Source | At Plant/site | Date of Sampling | 03-10-2021 |
| Period of Soaking | 24 hours | Date of Testing | 04-10-2021 |

| Sl. No. | Test Property | TRIAL - 1 | TRIAL - 2 | TRIAL - 3 | Average |
|---|---|---|---|---|---|
| A | Weight of sturated surface dry sample gm. | 683 | 654 | 667 | |
| B | Weight of oven - dry sample gm. | 671 | 644 | 656 | |
| C | Weight of Pycnometer Filled with water gm | 1275 | 1275 | 1275 | |
| D | Weight of Pycnometer + sample + water gm | 1705 | 1685 | 1695 | |
| E | Bulk specific gravity $\frac{B}{(C+A-D)}$ | 2.652 | 2.639 | 2.656 | 2.649 |
| G | Absorption (%) $\frac{(A-B)*100}{B}$ | 1.788 | 1.553 | 1.677 | 1.673 |

A.E Executive Engineer Project Division BBMP, Bangalore - 92

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| TEST REPORT | |
|---|---|
| Clients | Bruhat Bangalore Mahanagara Palike |
| Project | IMPROVMENTS TO TIOLET IN WARD NO 08 KODIGEHALLI |
| Consultants | Tejus Consultants, Bangalore |
| Contractor | M/s KRIDL |

**SIEVE ANALYSIS**

| | | | | | |
|---|---|---|---|---|---|
| **Total Weight:** | **3000** gms | | | | |
| **Type of Material** | **Fine aggregate (River Sand/M sand)** | | **Proposed Use** | Drain | |
| **Sample Location** | At Plant/site | | **Date of Sampling** | 04-10-2021 | |
| | | | **Date of Testing** | 04-10-2021 | |
| **IS Sieve Size** | **Weight Retained** | **Cum. Weight Retained** | **Cum. % Retained** | **Cum. % Passing** | **Spec. Limit (%) Passing (Zone-II)** |
| **10.00 mm** | 0 | 0 | 0 | 100.00 | **100** |
| **4.75 mm** | 185 | 185 | 6.17 | 93.83 | **90 - 100** |
| **2.36 mm** | 290 | 475 | 15.83 | 84.17 | **75 - 100** |
| **1.18 mm** | 518 | 993 | 33.10 | 66.90 | **55 - 90** |
| **0.600 mm** | 570 | 1563 | 52.10 | 47.90 | **35 -59** |
| **0.300 mm** | 650 | 2213 | 73.77 | 26.23 | **8-30** |
| **0.150 mm** | 562 | 2775 | 92.50 | 7.50 | **0 - 10** |
| **Pan** | 225 | 3000 | | | - |
| | | | | | |

**Remarks :** Satisfactory / Not Satisfactory

Asst. Executive Engineer
Project Division
BBMP Yelahanka Zone
Bangalore - 92

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# TEST REPORT

| | |
|---|---|
| Clients | Bruhat Bangalore Mahanagara Palike |
| Project | IMPROVMENTS TO TIOLET IN WARD NO 08 KODIGEHALLI |
| Consultants | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore |
| Contractor | M/s KRIDL |
| Total Weight: | 10000 gms |

## SIEVE ANALYSIS

| | | | | |
|---|---|---|---|---|
| Type of Material | 12.5 mm down size | Proposed Use | Concrete | |
| Sample Location | Plant/site | Date of Sampling | 05-10-2021 | |
| | | Date of Testing | 05-10-2021 | |

| IS Sieve Size (in mm) | Weight Retained | Cum. Weight Retained | Cum. % Retained | Cum. % Passing | Spec. Limit (%) Passing |
|---|---|---|---|---|---|
| 20.0 | 0 | 0 | 0 | 100 | 100 |
| 12.5 | 545 | 545 | 5.45 | 94.55 | 90-100 |
| 10.0 | 2432 | 2977 | 29.77 | 70.23 | 40-85 |
| 4.75 | 6287 | 9264 | 92.64 | 7.36 | 0-10 |
| Pan | 736 | 10000 | | | |
| | | | | | |

Remarks : ✓ Satisfactory / Not Satisfactory

AE Grade
Assistant Engineer
BBMP Electrical Division
Jalahalli Zone
Bangalore - 92

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| TEST REPORT | | | | | |
|---|---|---|---|---|---|
| Clients | Bruhat Bangalore Mahanagara Palike | | | | |
| Project | IMPROVMENTS TO TIOLET IN WARD NO 08 KODIGEHALLI | | | | |
| Consultants | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore | | | | |
| Contractor | M/s KRIDL | | | | |
| Total Weight: | 10000 | gms | | | |

| SIEVE ANALYSIS | | | | | |
|---|---|---|---|---|---|
| Type of Material | 20 mm down size | | Proposed Use | Concrete | |
| Sample Location | At Plant | | Date of Sampling | 05-10-2021 | |
| | | | Date of Testing | 05-10-2021 | |
| IS Sieve Size | Weight Retained | Cum. Weight Retained | Cum. % Retained | Cum. % Passing | Spec. Limit (%) Passing |
| 40.00 mm | 0 | 0 | 0 | 100 | 100 |
| 20.00 mm | 242 | 242 | 2.42 | 97.58 | 95 - 100 |
| 10.00 mm | 6564 | 6806 | 68.06 | 31.94 | 25 - 55 |
| 4.75 mm | 2456 | 9262 | 92.62 | 7.38 | 0 - 10 |
| Pan | 738 | 10000 | | | |
| | | | | | |
| Remarks : | | ✓ Satisfactory / Not Satisfactory | | | |

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Project Division
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BBMP Bangalore - 92

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## TEST REPORT

| | |
|---|---|
| Clients | BRUHAT BENGALORE MAHANAGARA PALIKE |
| Project | IMPROVMENTS TO TIOLET IN WARD NO 08 KODIGEHALLI |
| Consultants | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore |
| Contractor | M/s KRIDL |

## SPECIFIC GRAVITY AND WATER ABSORPTION FINE AGGREGATE
(IS-2386-PART-3)

| | | | |
|---|---|---|---|
| Type of Material | Sand/M sand | Proposed Use | Drain |
| Location/Source | At Plant/site | Date of Sampling | 04-10-2021 |
| Period of Soaking | 24 hours | Date of Testing | 05-10-2021 |

| Sl. No. | Test Property | TRIAL - 1 | TRIAL - 2 | TRIAL - 3 | Average |
|---|---|---|---|---|---|
| A | Weight of sturated surface dry sample gm. | 690 | 650 | 662 | |
| B | Weight of oven - dry sample gm. | 680 | 640 | 651 | |
| C | Weight of Pycnometer Filled with water gm | 1275 | 1275 | 1275 | |
| D | Weight of Pycnometer + sample + water gm | 1705 | 1685 | 1695 | |
| E | Bulk specific gravity $\frac{B}{(C+A-D)}$ | 2.615 | 2.667 | 2.690 | 2.657 |
| G | Absorption (%) $\frac{(A-B)*100}{B}$ | 1.471 | 1.563 | 1.690 | 1.574 |

**Note:**

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Yelahanka Zone
BBMP, Bangalore - 92

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| TEST REPORT | |
|---|---|
| Clients | Bruhat Bangalore Mahanagara Palike |
| Project | IMPROVMENTS TO TIOLET IN WARD NO 08 KODIGEHALLI |
| Consultants | Tejus Consultants, Bangalore |
| Contractor | M/s KRIDL |

**SIEVE ANALYSIS**

| | | | | | |
|---|---|---|---|---|---|
| **Total Weight:** | **3000** gms | | | | |
| **Type of Material** | **Fine aggregate (River Sand/M sand)** | | **Proposed Use** | Drain | |
| **Sample Location** | At Plant/site | | **Date of Sampling** | 05-10-2021 | |
| | | | **Date of Testing** | 05-10-2021 | |
| **IS Sieve Size** | **Weight Retained** | **Cum. Weight Retained** | **Cum. % Retained** | **Cum. % Passing** | **Spec. Limit (%) Passing (Zone-II)** |
| 10.00 mm | 0 | 0 | 0 | 100.00 | 100 |
| 4.75 mm | 180 | 180 | 6.00 | 94.00 | 90 - 100 |
| 2.36 mm | 300 | 480 | 16.00 | 84.00 | 75 - 100 |
| 1.18 mm | 520 | 1000 | 33.33 | 66.67 | 55 - 90 |
| 0.600 mm | 580 | 1580 | 52.67 | 47.33 | 35 -59 |
| 0.300 mm | 675 | 2255 | 75.17 | 24.83 | 8-30 |
| 0.150 mm | 580 | 2835 | 94.50 | 5.50 | 0 - 10 |
| Pan | 165 | 3000 | | | - |
| | | | | | |
| **Remarks :** | | | Satisfactory / Not Satisfactory | | |

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3. Any Query regarding the report must be reported reported within 15days from the date of testing.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP Bangalore - 92

**Authorised Signatory**

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## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| Project | IMPROVMENTS TO TIOLET IN WARD NO 08 KODIGEHALLI |
| Client | Bruhat Bangalore Mahanagar Palike |
| Consultant | TEJUS CONSULTANTS |
| Contractor | M/s KRIDL |
| Grade of concrete: | M20 |
| Size of cube: | 150x150x150 mm |
| Reference IS code: | IS:516-1959 |

| Sl.No. | Date of Casting | Date of testing | Age of Test | Weight of Cube | Area of Cube | Failure load | Compressive strength | Avg. Compressive strength |
|---|---|---|---|---|---|---|---|---|
| | | | | Kg | $mm^2$ | KN | $N/mm^2$ | $N/mm^2$ |
| 1 | 07-10-2021 | 14-10-2021 | 7 days | 8.123 | 22500 | 297 | 13.20 | 13.11 |
| 2 | 07-10-2021 | 14-10-2021 | 7 days | 8.133 | 22500 | 295 | 13.11 | |
| 3 | 07-10-2021 | 14-10-2021 | 7 days | 8.132 | 22500 | 293 | 13.02 | |

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2. The results indicated above are based on the tests carried out on the samples received in the laboratory/Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.
4.The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the Work

AE
Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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| TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES | |
|---|---|
| Project | IMPROVMENTS TO TIOLET IN WARD NO 08 KODIGEHALLI |
| Client | Bruhat Bangalore Mahanagar Palike |
| Consultant | TEJUS CONSULTANTS |
| Contractor | M/s KRIDL |
| Grade of concrete: | M20 |
| Size of cube: | 150x150x150 mm |
| Reference IS code: | IS:516-1959 |

| Sl.No. | Date of Casting | Date of testing | Age of Test | Weight of Cube | Area of Cube | Failure load | Compressive strength | Avg. Compressive strength |
|---|---|---|---|---|---|---|---|---|
| | | | | Kg | $mm^2$ | KN | $N/mm^2$ | $N/mm^2$ |
| 1 | 08-10-2021 | 15-10-2021 | 7 days | 8.125 | 22500 | 300 | 13.33 | 13.33 |
| 2 | 08-10-2021 | 15-10-2021 | 7 days | 8.136 | 22500 | 302 | 13.42 | |
| 3 | 08-10-2021 | 15-10-2021 | 7 days | 8.138 | 22500 | 298 | 13.24 | |

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## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| Project | IMPROVMENTS TO TIOLET IN WARD NO 08 KODIGEHALLI |
| Client | Bruhat Bangalore Mahanagar Palike |
| Consultant | TEJUS CONSULTANTS |
| Contractor | M/s KRIDL |
| Grade of concrete: | M20 |
| Size of cube: | 150x150x150 mm |
| Reference IS code: | IS:516-1959 |

| Sl.No. | Date of Casting | Date of testing | Age of Test | Weight of Cube | Area of Cube | Failure load | Compressive strength | Avg. Compressive strength |
|---|---|---|---|---|---|---|---|---|
| | | | | Kg | $mm^2$ | KN | $N/mm^2$ | $N/mm^2$ |
| 1 | 11-10-2021 | 18-10-2021 | 7 days | 8.122 | 22500 | 295 | 13.11 | |
| 2 | 11-10-2021 | 18-10-2021 | 7 days | 8.131 | 22500 | 298 | 13.24 | 13.24 |
| 3 | 11-10-2021 | 18-10-2021 | 7 days | 8.140 | 22500 | 301 | 13.38 | |

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## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| Project | IMPROVMENTS TO TIOLET IN WARD NO 08 KODIGEHALLI |
| Client | Bruhat Bangalore Mahanagar Palike |
| Consultant | TEJUS CONSULTANTS |
| Contractor | M/s KRIDL |
| Grade of concrete: | M20 |
| Size of cube: | 150x150x150 mm |
| Reference IS code: | IS:516-1959 |

| Sl.No. | Date of Casting | Date of testing | Age of Test | Weight of Cube | Area of Cube | Failure load | Compressive strength | Avg. Compressive strength |
|---|---|---|---|---|---|---|---|---|
| | | | | Kg | $mm^2$ | KN | $N/mm^2$ | $N/mm^2$ |
| 1 | 07-10-2021 | 04-11-2021 | 28days | 8.135 | 22500 | 480 | 21.33 | 21.01 |
| 2 | 07-10-2021 | 04-11-2021 | 28days | 8.125 | 22500 | 460 | 20.44 | |
| 3 | 07-10-2021 | 04-11-2021 | 28days | 8.152 | 22500 | 478 | 21.24 | |

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## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| Project | IMPROVMENTS TO TIOLET IN WARD NO 08 KODIGEHALLI |
| Client | Bruhat Bangalore Mahanagar Palike |
| Consultant | TEJUS CONSULTANTS |
| Contractor | M/s KRIDL |
| Grade of concrete: | M20 |
| Size of cube: | 150x150x150 mm |
| Reference IS codes: | IS:516-1959 |

| Sl.No. | Date of Casting | Date of testing | Age of Test | Weight of Cube | Area of Cube | Failure load | Compressive strength | Avg. Compressive strength |
|---|---|---|---|---|---|---|---|---|
| | | | | Kg | $mm^2$ | KN | $N/mm^2$ | $N/mm^2$ |
| 1 | 08-10-2021 | 05-11-2021 | 28days | 8.131 | 22500 | 480 | 21.33 | 21.29 |
| 2 | 08-10-2021 | 05-11-2021 | 28days | 8.120 | 22500 | 470 | 20.89 | |
| 3 | 08-10-2021 | 05-11-2021 | 28days | 8.140 | 22500 | 487 | 21.64 | |

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3. Any Query regarding the report must be reported reported within 15days from the date of testing.
4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the Work

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## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| Project | IMPROVMENTS TO TIOLET IN WARD NO 08 KODIGEHALLI |
| Client | Bruhat Bangalore Mahanagar Palike |
| Consultant | TEJUS CONSULTANTS |
| Contractor | M/s KRIDL |
| Grade of concrete: | M20 |
| Size of cube: | 150x150x150 mm |
| Reference IS code: | IS:516-1959 |

| Sl.No. | Date of Casting | Date of testing | Age of Test | Weight of Cube | Area of Cube | Failure load | Compressive strength | Avg. Compressive strength |
|---|---|---|---|---|---|---|---|---|
| | | | | Kg | $mm^2$ | KN | $N/mm^2$ | $N/mm^2$ |
| 1 | 11-10-2021 | 08-11-2021 | 28days | 8.134 | 22500 | 488 | 21.69 | 21.48 |
| 2 | 11-10-2021 | 08-11-2021 | 28days | 8.128 | 22500 | 495 | 22.00 | |
| 3 | 11-10-2021 | 08-11-2021 | 28days | 8.142 | 22500 | 467 | 20.76 | |

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3. Any Query regarding the report must be reported reported within 15days from the date of testing.
4.The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the Work

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## KERB STONE (CORE) TEST REPORT

| | | |
|---|---|---|
| Client | : | Bruhat Bangalore Mahanagara Palike |
| Contractor | : | M/s KRIDL |
| Name of Work | : | IMPROVMENTS TO TIOLET IN WARD NO 08 KODIGEHALLI |
| No.of Sample Tested | : | 3 |
| Date of Testing | : | 21-10-2021 |
| Techinical Referenc | : | IS:516-1959 (Reaffirmed 1999), SP-24:1983. |
| Grade of Concrete | : | $M_{15}$ |

| Sl. No. | Dia of Core D (mm) | Height of Core H (mm) | Core Wt (Kg) | Density of Core (kg / $m^3$) | H / D | Correction factor (Based on H/D) | Failure Load (kN) | Core Strength ( $N/mm^2$) | Correction Factor for the Dia. (Strength of the Core x 1.08) | Corrected Cylinder Compressive Strength ($N/mm^2$) | Equivalent Cube Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 50.00 | 85.00 | 0.420 | 2516.52 | 1.70 | 0.960 | 33.10 | 16.86 | 18.21 | 17.48 | 21.85 |
| 2 | 50.00 | 85.00 | 0.415 | 2486.56 | 1.70 | 0.960 | 32.42 | 16.51 | 17.83 | 17.12 | 21.40 |
| 3 | 50.00 | 85.00 | 0.420 | 2516.52 | 1.70 | 0.960 | 32.26 | 16.43 | 17.74 | 17.03 | 21.29 |

Note:

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2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported reported within 90 days from the date of testing.
4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the Work.

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## PRECAST SLAB (CORE) TEST REPORT

| | | |
|---|---|---|
| Client | : | Bruhat Bangalore Mahanagara Palike |
| Contractor | : | M/s KRIDL |
| Name of Work | : | IMPROVMENTS TO TIOLET IN WARD NO 08 KODIGEHALLI |
| No of Sample Tested | : | 3 |
| Date of Testing | : | 21-10-2021 |
| Technical Reference | : | IS:516-1959 (Reaffirmed 1999), SP-24:1983. |
| Grade of Concrete | : | $M_{20}$ . 150mm thick |

| Sl. No. | Dia of Core D (mm) | Height of Core H (mm) | Core Wt (Kg) | Density of Core (kg / $m^3$) | H / D | Correction factor (Based on H/D) | Failure Load (kN) | Core Strength ( $N/mm^2$) | Correction Factor for the Dia. (Strength of the Core x 1.08) | Corrected Cylinder Compressive Strength ($N/mm^2$) | Equivalent Cube Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 50 | 140 | 0.66 | 2400.97 | 2.80 | 0.96 | 38.14 | 19.42 | 20.98 | 20.14 | 25.17 |
| 2 | 50 | 140 | 0.66 | 2400.97 | 2.80 | 0.96 | 38.28 | 19.50 | 21.06 | 20.21 | 25.27 |
| 3 | 50 | 140 | 0.66 | 2400.97 | 2.80 | 0.96 | 38.32 | 19.52 | 21.08 | 20.23 | 25.29 |

Note:

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4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the Work.

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